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(54) Title: COMPOSITION FOR TREATING SKIN AFFECTIONS AND PROCESS FOR ITS PREPARATION

(57) Abstract

There is described a multifunctional composition for the treatment of chapped, sore and/or inflamed skin parts, comprising at least the following ingredients: (a) an oil fraction comprising straight or branched paraffinic oils, having from 10 to 60 carbon atoms in the chain; (b) an emulsifying system mainly comprising (b,i) mono- and/or diglycerides of high unsaturated and saturated fatty acids, and (b,ii) ethoxylated triglycerides, esterified with fatty acids; (c) vitamin E, or a derivative thereof; (d) methionine; (e) a pH regulating system; (f) a stabilizer consisting of montmorillonite; (g) water ad 100 % by weight, and the preparation and use of said composition.

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COMPOSITION FOR TREATING SKIN AFFECTIONS AND PROCESS FOR ITS PREPARATION.

The invention relates to a composition for treating skin affections, to a process for its preparation, and to the application of said composition. In particular the invention relates to a multifunctional composition for the treatment of chapped, sore and/or inflamed skin parts such as lips, nose opening edges, eyelids and the like, while such composition does not contain ingredients which may disturb the biological equilibrium of said skin part.

Specifically, the composition of the invention heals, relieves and softens chapped, sore or inflamed lips, nose opening edges, eyelids and the like, affected by a Herpes Simplex virus type, such as fever blister and/or affections by winter weather and/or intensive sunshine.

The before mentioned affections can also be caused by flu or menstruation.

in the course of the last decade. However, the up to now available prior art compositions have the disadvantage that they cause a burning, irritated and/or inflamed feeling, usually caused by constituents which significantly disturb the biological equilibrium of the affected skin parts. As a consequence, said prior art compositions usually did not relieve the irritation or even pain, and certainly did not heal the affected skin in an efficient way.

Therefore one object of the present invention is to provide a multifunctional composition for the treatment of chapped, sore and/or inflamed skin parts such as lips, nose opening edges, eyelids and the like, which during application does not cause a burning, irritated and/or inflamed feeling and which facilitate an almost immediate relief and healing, and the constituents of which do not disturb the biological equilibrium of the affected skin parts.

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Another object of the present invention is to provide a process for the preparation of said composition.

As a result of extensive and lengthy research and experimentation, such compositions have surprisingly been found.

Accordingly, the present invention provides a multifunctional composition for the treatment of chapped, sore and/or inflamed skin parts such as lips, nose opening edges, eyelids and the like, characterised by at least the following ingredients:

- 15 (a) An oil fraction comprising straight or branched paraffinic oils, having from 10 to 60 carbon atoms in the chain, and preferably from 15 to 25 carbon atoms, in an amount of from 10 to 60 % by weight, and preferably from 15 to 25 % by weight, relative to the weight of the 20 complete composition, having a boiling range between 100 and 500°C at atmospheric pressure and a viscosity of preferably at most $35 \text{ mm}^2/\text{s}$, preferably of at most 30 \mbox{mm}^2/\mbox{s} , at 25°C, while the paraffinic oils may optionally be mixed with esters of higher natural fatty acids, which are preferably unsaturated, and 25 οf higher aliphatic alcohols, which are preferably unsaturated, of at most 20 carbon atoms in the chain, in an amount of from 0 to 2 % by weight, and preferably from 0.5 to 2 % by weight, relative to the weight of the complete 30 composition;
 - (b) An emulsifying system mainly comprising
- (b,i) mono- and/or diglycerides of higher unsaturated and saturated fatty acids, in an amount of from 0.5 to 3 % by weight, relative to the weight of

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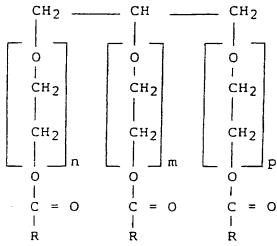
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the complete composition, e.g. Tegomuls (trademark), and

ethoxylated triglycerides esterified with fatty (b, ii) acids, according to the general formula



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m and p represent the same or different wherein n, integers of from 0 to 20, under the condition that at least one of the symbols n, m and p has a value of from 5 to 20, preferably from 7 to 15, and wherein R represents the same or different saturated or unsaturated, preferably the same unsaturated hydrocarbon derived from vegetable or animal oil (e.g. Tagat TO). The weight ratio between the amount of monoand/or diglycerides on the one hand and of the ethoxylated triglycerides on the other hand may vary from 10 to 100 parts by weight of mono- and/or diglycerides per part by weight of ethoxylated triglycerides and preferably from 15 to 50 parts by weight of mono- and/or diglycerides per part by weight of ethoxylated triglycerides, whereas the amount of the complete emulsifying system, relative to the weight of the complete composition, may vary from 0.5 to 3.5 % by weight and preferably from 2 to 3 % by weight, relative to the weight of the total composition.

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- (C) Vitamin E, or a derivative thereof which may easily provide vitamin E itself by conversion on the affected skin, such as Covitol (trademark), in an amount of from 0.1 to 5 % by weight, and preferably from 0.5 to 4 % by weight, and most preferably from 1 to 3 % by weight, relative to the weight of the total composition;
- (d) Methionine, in the form of its L or D isomer or mixtures thereof, preferably L-methionine, or a derivative thereof which may easily provide methionine by conversion on the affected skin, in an amount of from 0.1 to 5 % by weight and preferably from 0.5 to 3 % by weight and most preferably from 1 to 2 % by weight, relative to the weight of the complete composition;
 - (e) A pH regulating system to adjust the pH of a present aqueous phase, including at least demineralized water and methionine, to be in the range of from 4.4 to 5.0 and more preferably from 4.5 to 4.9, comprising preferably citric acid, zinc carbonate and sodium hydroxide, or citric acid, zinc carbonate and potassium hydroxide, each of the components occurring in an amount of from 0.05 to 2.5 % by weight, relative to the weight of the complete composition.

More preferably citric acid, zinc carbonate and sodium hydroxide occur in amounts of from 0.5 to 2 % by weight, from 0.05 to 0.2 % by weight and from 0.5 to 1 % by weight, respectively, relative to the weight of the complete composition.

The pH of the final complete composition is adjusted by said pH regulating system to the range of from 4.8 to 5.1 with citric acid or sodium hydroxide.

(f) A stabilizer, consisting of at least one montmorillonite, the free oxygen sites of which are occupied by quaternary groups (quaternary modified montmorillonites). Examples of such stabilizers which are preferably included are Bentone (trademark) or Propoloid (trademark). Said stabilizers are included in the composition in amounts of from 0.1 to 1.5 % by weight and preferably from 0.5 to 0.7 % by weight, relative to the weight of the complete composition.

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(q) Water ad 100 % by weight.

Preferably demineralized water is used in amounts of from 65 to 75 % by weight, relative to the weight of the complete composition.

In addition to the before mentioned primary indispensable ingredients, one or more secondary ingredients also can be present in the complete compositions, such as:...

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(h) At least one preservative.

Preferably different types are present in the continuous ultimately formed oily phase.

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For example esters of parahydroxy benzoic acid may occur in the oily phase as well as in the aqueous phase.

Preferably the methyl and/or the (iso)propyl ester is present in an amount of from 0.1 to 1 % by weight and most preferably in amounts from 0.5 to 0.7 % by weight, relative to the weight of the complete composition.

Most preferably mixtures of methyl, propyl and butyl p-hydroxybenzoate are used, e.g. Phenonip (trademark).

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It will be appreciated by a person skilled in the art, that these before mentioned preservatives may be completely or partially replaced by other preservatives, e.g. Germall II (trademark) or Hydroconserv (trademark), and if so, said other preservatives are present preferably in an amount of from 0.1 to 0.5 % by weight.

More preferably the preservatives occur in the aqueous phase in a total amount of from 0.3 to 0.4 % by weight;

- (i) Glycerol, in an amount of from 1 to 4 % by weight and more preferably from 1 to 3 % by weight.
- (j) A gel forming agent, such as carraghenate, preferably consisting of a polysaccharide with sulphonic acid residues, and preferably a gel forming agent of natural origin such as one derived from seaweeds. The sulphonic acid residues have optionally been converted into salts or esters of glycol, propylen glycol and glycerol (resulting in the so-called modified carraghenates).

The gel forming agent, e.g. the carraghenates, in amounts of from 0.1 to 5 % by weight, relative to the weight of the complete composition and preferably from 0.5 to 2 % by weight, cause a gel structure in the final composition. Such a complete composition shows a viscosity of 200 to 5000 mPa·s (centipoises) at 25°C, enabling an adequate application of the composition.

It will be appreciated by a person skilled in the art that the carraghenate may be completely or partially replaced by alternative gel forming means, such as carboxy methyl cellulose, esterified by polyacrylic acid e.g. Carbopol (trademark), or hydroxy ethyl cellulose, in amounts which provide the viscosity values in the above range.

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- (k) Perfume, in an amount of from 0.1 to 2 % by weight, preferably 0.1 to 0.3 % by weight, relative to the weight of the complete composition. Examples of such perfumes are sage oil or jacaranda.
- (1) at least one protein, obtainable from aqueous extraction of plants, such as aloe vera, in amounts of from 0.1 to 0.5 % by weight, relative to the weight of the complete composition, and preferably from 0.1 to 0.3 % by weight.

The compositions according to the present invention as specified hereinbefore, are characterized by a relatively low viscosity and high stability, which guarantees an easy application, without a "greasy" feeling or stickiness, due to the fast penetration into the skin tissue, and moreover by a healing, relieving and softening activity.

Another aspect of the present invention is formed by a process for the preparation of the hereinbefore specified compositions.

The complete continuous oily phase is prepared in one or more steps of said process, composed of oil fractions, the optional esters of fatty acids and alcohols, the emulsifying system, the stabilizer, vitamin E or a derivative thereof and the optional preservative, wherein in one or more separate steps at least one dispersed aqueous phase is prepared, composed of demineralized water, citric acid or a citrate, zinc carbonate and sodium or potassium hydroxide, methionine, glycerol, gel forming agent, protein, and preservative and perfume.

The composition according to the present invention is prepared by composing both phases and mixing them together at a temperature of 10 to 40°C, followed by additional stirring

and homogenizing until an average particle size of the dispersed aqueous phase of at most 5 μ and preferably smaller than 3 μ is reached, while the pH of the final complete composition is adjusted within the range of from 4.8 to 5.1.

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According to a preferred embodiment of the process to prepare the composition of the present invention, in a first step the oil fraction, the optional esters of unsaturated fatty acids and alcohols, the emulsifying system and the stabilizer are mixed and homogenized at a temperature from 60 to 90°C, whereafter the homogeneous mixture is cooled back to a temperature of at most 30°C.

The cooled mixture is mixed in a second step with vitamin E or a derivative thereof which can easily be transformed into said vitamin, and with the perfume, until a homogeneous mixture is obtained.

The aqueous phase is normally prepared at a temperature of from 10 to 40°C and preferably from 20 to 30°C by subsequent addition of demineralized water in an amount of about one third of the total amount in the final composition, of the citric acid, of zinc carbonate and of sodium or potassium hydroxide under gently stirring until complete dissolution.

25 If necessary the pH of the homogeneous solution is adjusted

to the range of from 4.6 to 4.8 by addition of sodium or potassium hydroxide or citric acid. To this aqueous solution the remainder of the desired total amount of water, methionine, glycerol, carraghenate, preservative and protein are added whereafter the pH is again adjusted to the range of from 4.5 to 4.8.

The finally obtained aqueous phase is added to the oily phase under stirring vigorously and subsequent homogenizing at a temperature in the range of from 10 to 40°C and preferably from 20 to 30°C, whereafter the pH of the complete

dispersion, having dispersed aqueous phase particles of an average size of at most 5 μ , is in the range of from 4.9 to 5.1.

Another aspect of the present invention is formed by the application of the before specified composition, i.e. the treatment of the chapped, sore and/or inflamed skin of lips and nose opening edges, eyelids and the like, with the hereinbefore specified composition.

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Such an application comprises a method being usual for said compositions, characterized by application and evenly spreading the composition on the skin area involved, in an amount of from 20 to $100~\text{ml/m}^2$ skin area.

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This treatment should preferably be performed 2 to 3 times a day.

The invention is illustrated by the following examples, however without restricting its scope to these specific embodiments.

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Example 1

Under stirring and heating to a temperature of 80°C the following ingredients are combined:

10		paraffinic oil I, boiling range 295-390°C Shell Ondina 15 (trademark)	10.000	kg
10		paraffinic oil II, boiling range 290-500°C Shell Ondina 68 (trademark)	6.000	kg
15		<pre>mono- and diglycerides, Tegomuls SB (trademark)</pre>	2.280	kg
20	D	quaternary modified montmorillonite, Bentone 38 (trademark)	0.660	kg
	Batch I	oleyl decalate, Cetiol V (trademark)	1.000	kg
25	-	ethoxylated triglycerides, Tagat TO (trademark)	0.050	kg

30 The homogeneous mixture is cooled to 30°C and mixed with

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vitamin E, Covitol (trademark)

Batch perfume (sage oil)

perfume (jacaranda)

0.075 kg
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to a homogeneous mixture.

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An aqueous phase is prepared by mixing together:

		(water	21.417	kg
	Batch	citric acid	1.133	kg
5	III	 zinc carbonate BCP49	0.700	kg
		sodiumhydroxide (97 %)	0.150	kg

whereafter the pH of the aqueous solution is adjusted with either citric acid or sodium hydroxide to a pH of from 4.60 to 4.80, and

	(water	49.610	kg
		L-methionine	1.000	kg
	Batch	glycerol 1.26	2.000	kg
15	IV	carraghenate, Aubygum X2 (trademark)	1.000	kg
		preservatives	0.600	kg
		protein, aloe vera	0.200	kg

The batches III and IV are combined and mixed with the mixture of batches I and II under vigorously stirring and homogenzing until an average particle size of the dispersed phase of 3 μ is obtained, whereafter the pH of the complete composition was 5.0.

25 Example 2

According to the same procedure as described in Example 1, a composition was prepared from the following ingredients:

30		paraffinic oil I	14.700	kg
		paraffinic oil II	3.200	kg
		mono- and diglycerides	2.100	kg
	Batch	quaternary modified montmorillonite	0.650	kg
	I	ethoxylated triglycerides	0.050	kg
35	and			

		vitamin E perfume (sage oil) perfume (jacaranda)	2.200 0.140 0.075	kg
	and			
5	1	/water	21.340	kg
	Batch	citric acid	1.130	kg
	III	zinc carbonate	0.700	kg
	į	potassium hydroxide (97 %)	0.155	kg
	and			
10	,	(water	48.105	kg
	Ī	L-methionine	1.300	kg
		glycerol	1.800	kg
	Batch	carraghenate	1.200	kg
	IV	preservatives	0.700	kg
15		protein	0.400	kg

Example 3

According to the same procedure as described in Example 1, a composition was prepared from the following ingredients:

		paraffinic oil I	12.200	kg
		paraffinic oil II	3.200	kg
	Batch	mono- and diglycerides .	2.200	kg
25	I	ethoxylated triglycerides	0.055	kg
		quaternary modified montmorillonite	0.645	kg
	and			
		(vitamin E	2.100	kg
	Batch	perfume (sage oil)	0.140	kg
30	ΙΙ	perfume (jacaranda)	0.080	kg
	and	•		
		(water .	21.500	kg
	Batch	citric acid	1.130	kg
	III	zinc carbonate	0.700	kg
35		sodium hydroxide	0.160	kg
	and			

	1	water	49.690	kg
		L-methionine	1.500	kg
		glycerol	. 2.500	kg
	Batch	carraghenate	1.300	kg
5	IA	preservative	0.600	kg
		protein	0.300	kg
		\		

Example 4

According to the same procedure as described in Example 1, a composition was prepared from the following ingredients:

		paraffinic oil I	12.000 kg
		paraffinic oil II	3.400 kg
15	Batch	mono- and diglycerides	2.200 kg
	I	ethoxylated triglycerides	0.060 kg
		quaternary modified montmorillonite	0.640 kg
	and		
		<pre> vitamin E acetate, D-isomer </pre>	2.300 kg
20	Batch	perfume (sage oil)	0.400 kg
	II	perfume (jacaranda)	0.080 kg
	and		
		(water	21.900 kg
	Batch	citric acid	1.130 kg
25	III	zinc carbonate	0.700 kg
		sodium hydroxide (97 %)	0.160 kg
	and		
		water	50.250 kg
		D,L-methionine	2.000 kg
30		glycerol	2.000 kg
	Batch	preservative	0.600 kg
	VI	protein	0.380 kg

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The hereinbefore specified compositions show a high stability and a fast healing, relieving and softening activity when applied on sore, chapped and/or inflamed skin of lips and nose opening edges.

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Claims

- Multifunctional composition for the treatment of chapped, sore and/or inflamed skin parts such as lips, nose opening edges, eyelids and the like, characterized by at least the following ingredients:
 - (a) An oil fraction comprising straight or branched paraffinic oils, having from 10 to 60 carbon atoms in the chain, in an amount of from 10 to 60 % by weight, relative to the weight of the complete composition, having a boiling range between 100 and 500°C atmospheric pressure and a viscosity of at 35 mm²/s at 25°C, while the paraffinic oils optionally be mixed with esters of higher natural fatty acids, which are preferably unsaturated, and of alcohols, which aliphatic higher natural preferably unsaturated, of at most 20 carbon atoms in the chain, in an amount of from 0 to 2 % by weight, relative to the weight of the complete composition;
 - (b) an emulsifying system mainly comprising
- (b,i) mono- and/or diglycerides of higher unsaturated natural fatty acids, in an amount of from 0.5 to 3 % by weight, relative to the weight of the complete composition, and
- (b,ii) ethoxylated triglycerides esterified with fatty acid, according to the general formula

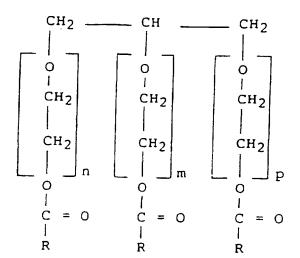
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wherein n, m and p represent the same or different integers of from 0 to 20, under the condition that at least one of the symbols n, m and p has a value of 20 from 5 to 20, preferably from 7 to 15, and wherein R represents the different same or saturated unsaturated, and preferably the same unsaturated hydrocarbon residue, derived from vegetable or animal 25 oil,

> whereby the weight ratio between the amount of monoand/or diglycerides on the one hand and of the ethoxylated triglycerides on the other hand may vary from 10 to 100 parts by weight of mono- and/or diglycerides per part by weight of ethoxylated triglycerides, whereas the amount of the complete emulsifying system, relative to the weight of the complete composition, may vary from 0.5 to 3,5 % by weight,

(c) vitamin E, or a derivative thereof which may easily provide vitamin E itself by conversion on the affected skin in an amount of from 0.1 to 5 % by weight, relative to the weight of the total composition;

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- (d) methionine, in the form of its L or D isomer or mixtures thereof, preferably L-methionine, or a derivative thereof which may easily provide methionine by conversion on the affected skin, in an amount of from 0.1 to 5 % by weight, relative to the weight of the complete composition;
- (e) a pH regulating system to adjust the pH of a present aqueous phase including at least demineralized water and methionine, to be in the range of from 4.4 to 5.0, comprising preferably citric acid, zinc carbonate and sodium hydroxide or citric acid, zinc carbonate and potassium hydroxide, each of the components occurring in an amount of from 0.05 to 2.5 % by weight, relative to the weight of the complete composition;
- (f) a stabilizer consisting of at least one montmorillonite the free oxygen sites of which are occupied by quaternary groups in an amount of from 0.1 to 1.5 % by weight, relative to the weight of the complete composition;
- 25 (g) water ad 100 % by weight.
 - 2. Composition according to claim 1, comprising
- (a) an oil fraction, comprising straight or branched paraffinic oils in an amount of from 15 to 25 % by weight, mixed with esters of unsaturated higher natural aliphatic alcohols in an amount of from 0.5 to 2 % by weight;
- 35 (b) an emulsifying system mainly comprising

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- (b,i) mono- and/or diglycerides of higher unsaturated and saturated fatty acids, in an amount of from 0.5 to 3 % by weight,
- (b,ii) ethoxylated triglycerides according to the general formula of claim 1 wherein n, m and p are the same or different and each has a value from 7 to 15, and R is defined as in claim 1,

whereby the weight ratio between the amount of mono-, 0 and/or diglycerides and the οf ethoxylated triglycerides is in the range of from 15 to 50 parts by weight of mono- and/or diglycerides per part by weight of ethoxylated triglycerides, whereas amount of the complete emulsifying system, relative _ ; to the weight of the complete composition, is in the range of from 2 to 3.5 % by weight;

- (c) vitamin E in an amount of from 1 to 3 % by weight, relative to the weight of the complete composition;
 - (d) L-methionine in an amount of from 1 to 2 % by weight;
- (e) a pH regulating system to adjust the pH of the aqueous system to be in the range of from 4.5 to 4.9, comprising citric acid, zinc carbonate and sodium hydroxide in amounts of 0.5 to 2 % by weight, from 0.5 to 1 % by weight and 0.05 to 0.2 % by weight, respectively;
 - (f) the stabilizer in an amount of from 0.5 to 0.7 % by weight; \cdot
 - (g) water ad 100 % by weight.

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- 3. Composition according to claims 1 or 2, comprising additionally:
 - (h) at least one preservative in an amount of from 0.1 to 1 % by weight, preferably from 0.5 to 0.7 % by weight, relative to the weight of the complete composition;
 - (i) glycerol in an amount of from 1 to 4 % by weight, preferably from 1 to 3 % by weight, relative to the weight of the complete composition;
 - (j) a gel forming agent in an amount of from 0.1 to 5 % by weight, preferably from 0.5 to 2 % by weight, relative to the weight of the complete composition;
 - (k) perfume in an amount of from 0.1 to 2 % by weight, relative to the weight of the complete composition;
- 20 (1) at least one protein, obtainable from aqueous extraction of plants, such as aloe vera, in an amount of from 0.1 to 0.5 % by weight, preferably from 0.1 to 0.3 % by weight, relative to the weight of the complete composition.

Process for the preparation of a composition according to any of claims 1 to 3, characterized by the preparation in one or more steps of the complete continuous oily phase, composed of the oil fraction, the optional esters of fatty acids and alcohols, the emulsifying system, the 30 a derivative thereof, the E or stabilizer, vitamin and the optional preservative, the perfume of in one or more steps at dispersed aqueous phase composed of demineralized water, citric acid or a citrate, zinc carbonate and sodium or 35 potassium hydroxide, methionine, glycerol, gel forming

agent, protein, and preservative, and by mixing together both phases at a temperature in the range of from 10 to $40\,^{\circ}\text{C}$, followed by additional stirring and homogenizing until an average particle size of the dispersed aqueous phase of at most 5 μ , and preferably smaller than 3 μ , is reached, while the pH of the final complete composition is adjusted within the range of from 4.8 to 5.1.

Process according to claim 4, characterized in that

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in a first step the oil fraction, the optional esters of fatty acids and alcohols, the emulsifying system and the stabilizer are mixed and homogenized at a temperature from 60 to 90°C, whereafter the homogeneous mixture is cooled back to a temperature of at most 30°C,

whereafter the cooled mixture is mixed in a second step with vitamin E or a derivative thereof which can easily be transformed into said vitamin, and with the perfume until a homogeneous mixture is obtained;

and that the aqueous phase is prepared by subsequent addition of demineralized water in an amount of about one third of the total amount in the final composition, of citric acid, of zinc carbonate and of sodium or potassium hydroxide under gently stirring until complete dissolution, whereafter, if necessary, the pH of homogeneous solution is adjusted to the range of from 4.6 to 4.8 by addition of sodium or potassium hydroxide or citric and the acid, remainder of the desired total amount water, methionine, glycerol, carreghenate, preservative · and protein are added the solution, whereafter the pH is again adjusted to the range of from 4.6 to 4.8,

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and that the finally obtained aqueous solution is added to the oily phase under stirring vigorously and subsequent homogenizing at a temperature in the range of from 10 to 40°C, preferably from 20 to 30°C, whereafter the pH of the complete dispersion, having dispersed aqueous phase particles of an average size of at most 5 μ is in the range of from 4.9 to 5.1.

6. Use of a composition according to any of claims 1 to 3, comprising the application and evenly spreading on chapped, sore and/or inflamed lips, nose opening edges, eyelids and the like, of said composition in an amount of from 20 to 100 ml/m² skin area.

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A. CLASSIFICATI IPC 6 A61	ON OF SUBJECT MATTER K47/00 A61K7/48		
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B. FIELDS SEARC	THED abon searched (classification system followed by classification system for system fo	cehen nembolsh	
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Electronic data buse	consulted during the international scarch (name of data	base and, Where practical, search term	d used)
C. DOCUMENTS C	ONSIDERED TO BE RELEVANT		
	of document, with inducation, where appropriate, of the	relevant passages	Relevant to claim No.
A EP	0 203 211 A (CHEMISCH ADVIESI C.P. SCHREUDER B.V.) 3 Decembe e page 4, line 33 - page 5, le e page 6, line 31 - line 33 e page 7 - page 9; examples 1-	BUREAU DRS er 1986 ine 3	1-6
X Further docume	mms are hand in the continuation of how C.	X Patent family members are	listed in annex.
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C*(Couomin	DOCUMEN'S CONSIDERED TO BE RELEVANT	
Calegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHEMICAL ABSTRACTS, vol. 100, no. 18, 30 April 1984 Columbus, Ohio, US; abstract no. 144838k, "Cosmetics containing vitamin E analogs and Aloe extracts for skin cracking control" page 352; column 1; XPGG2GGGGG57	1-6
A	see abstract & PATENT ABSTRACTS OF JAPAN vol. 8, no. 102 (C-222), 12 May 1984 & JP 59 016816 A (RAION KK), 28 January 1984,	1-6
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Box 1 Observations where certain claims were found unscurchable (Continuation of item 1 of first sheet)	
This [nurmational Search Report has not been established in respect of certain claims under Arucle 17(- (a) for the following reasons:	\
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claim(s) 6 is(are) directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.	
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be earried out, specifically:	
2. Claims Not.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(2).	(
Box II Observations where unity of invention is tacking (Continuation of item 2 of first sheet)	
This international Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search feer were unrely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all scarchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
As only sume of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
The additional search fees were accompanied by the applicant's protest No protest accompanied the payment of additional search fees.	

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International dication No PCT/EP 97/00269

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